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AD-A228 870

To: Whom it may concern
From: Bill Emery, CU/CCAR
Subject: Annual Progress Report for N00014-89-J-1189
1990

Our project involves the analysis of satellite and expendable bathythermograph (XBT) data for the Abrupt Topography program. The satellite data analysis concentrated on the analysis of GEOSAT altimeter data since it was established that the surface temperature gradients (in the region around the Fieberling seamount) were too weak to be viewed and monitored by the Advanced Very High Resolution Radiometer (AVHRR) on the NOAA satellites. Using GEOSAT data we have been able to isolate the modes of sea surface height variability in the Fieberling region, and papers have been presented at the 1989 fall AGU and the 1990 Ocean Sciences meeting.

A total of 7 XBT surveys have now been collected over the Fieberling site. All of these surveys have been made from ships working in the area as part of the overall project. The XBT surveys clearly reveal the rich mesoscale structure of the region consistent with the mean and variability maps from the GEOSAT altimetry. More XBT surveys are planned in conjunction with future ship operations in the Fieberling area. We are working on a manuscript which combines the XBT and altimetry data to map the mesoscale structure and its variability, in the region around Fieberling.

Dist. "A" per telecon Dr. David Evans.
Office of Naval Research/code 1122ML.
VHG 11/02/90